



# **LOW IMPROVED TARGET ACQUISITION SYSTEM (ITAS)**

**Performance Based Logistics (PBL) Road Show**

**18 AUG 03**



# ***AGENDA***

- **Background**
  - **System**
  - **Performance Based Logistics (PBL)**
  - **Recent Events**
- **Battlefield Lessons Learned**
- **Challenges**
- **Wish List**
- **Summary**





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# TOW Improved Target Acquisition System (ITAS)

**One for One  
Replacement of the  
Ground TOW 2  
(M220A2) System**



## **Units Fielded**

1. 82D Airborne Division **Combat**
2. IBCT 1 **Deploying**
3. 101st Airborne Division (AASLT) (Partial) **Combat**
4. 2D Infantry Division
5. 10<sup>th</sup> Mountain Division (Partial) **Combat**
6. IBCT 2
7. 25<sup>th</sup> Infantry Division (Partial, June 03) **Deploying**

**Modified ITAS (MITAS)**





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# System Overview

## TARGET ACQUISITION SUBSYSTEM INTEGRATED SIGHT

- 2nd GEN FLIR Detector (w/Monitor) - SADA II
- Laser Range Finder
- Direct View Optics



## POWER SUPPLY/BATTERY BOX

- Dismounted Power
- Power Conditioning
- Built-In Battery Charger



**4 LRU's**



## FIRE CONTROL SUBSYSTEM

- Embedded Training Cards
- Missile Guidance
- BIT/BITE



## TRAVERSING UNIT MODS

- Brake
- Pistol Grip
- New TAS Mount
- Ground Mounted w/Trinod



**Time "In the Pits" is  
Reduced**

- **ITAS Designed to Improve Performance**
- **PBL Designed to Increase System Availability and Reduce Ownership Cost**



**TOW 2**

**Better  
Performance  
Equals More Kills  
and  
Greater Soldier  
Survivability**



**ITAS**



# ITAS PBL Concept

## **Organizational (Crew / Operator)**

- PMCS
- BIT/BITE

**No Change For Soldier**

## **Soldier Maintainer Retains Normal Direct Support Mission**

- Trouble Shoots and Repairs System
- Has Spares Loaded As Shop Stock

**No Change For Soldier**

## **The Collocated Contractor FRA Functions As a Depot Forward and Provides:**

- Maintenance
- Supply

**ITAS Repair  
Spares  
Provided As  
Shop Stock to  
FSBs**

**Spare Parts Are Provided Free To the User**



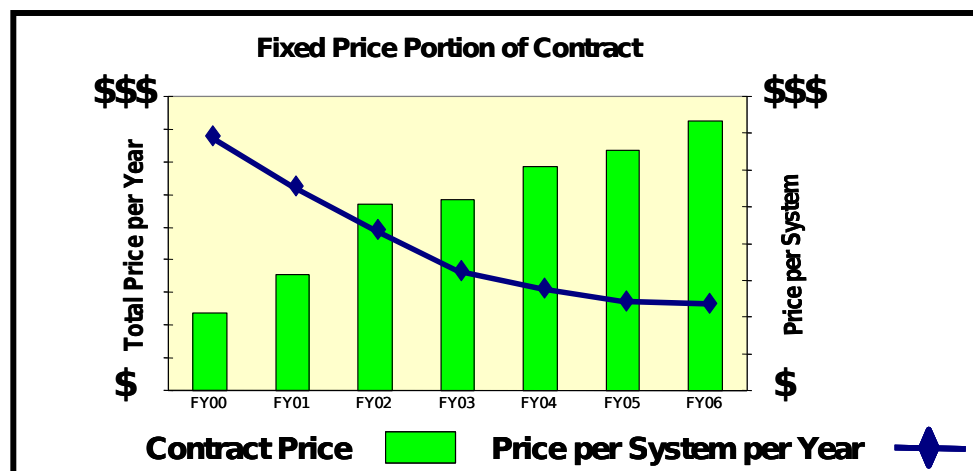
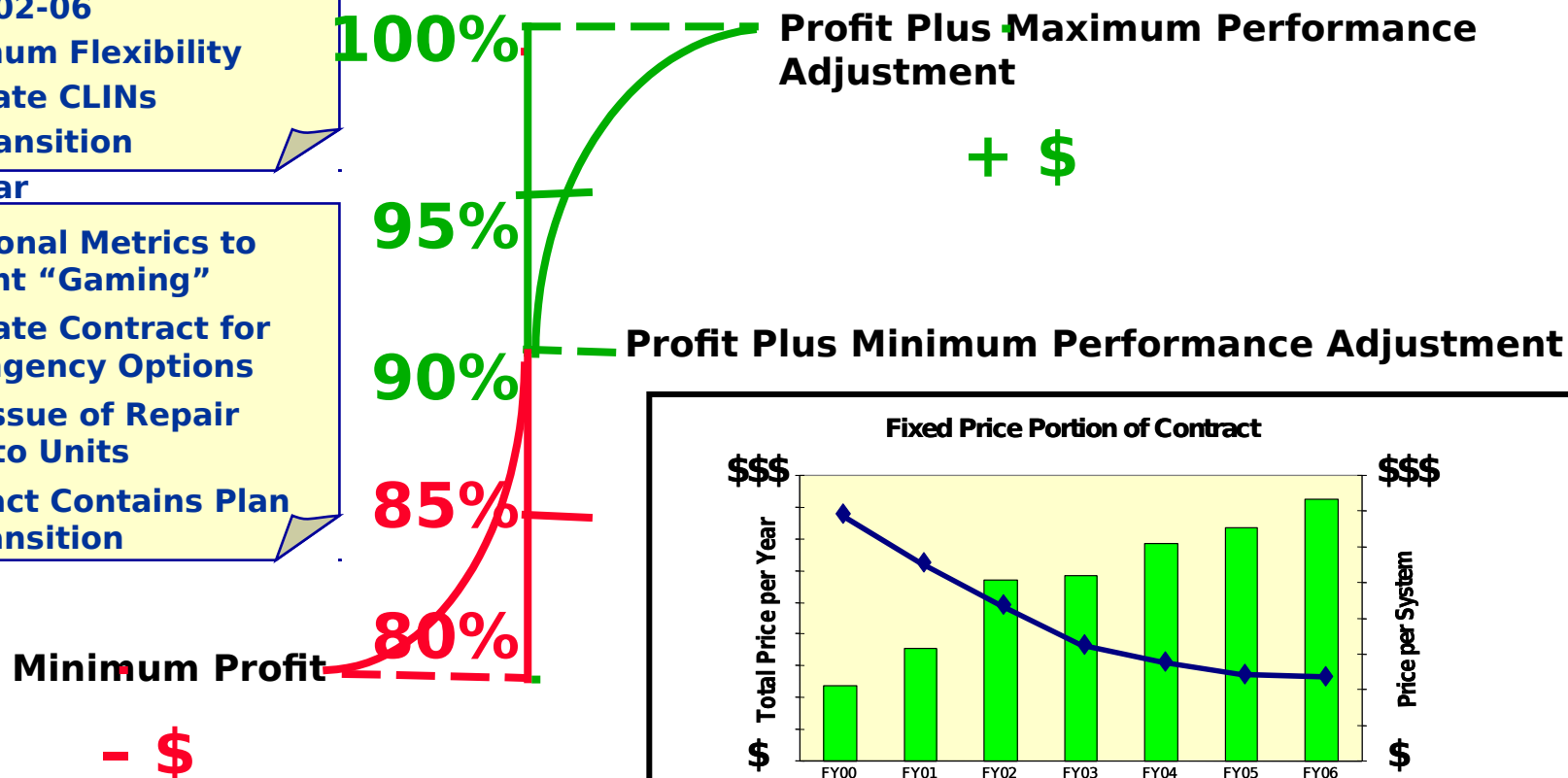


# Fixed Price - Performance Adjustment

- 5 Yr Multiple-Year Contract
- ICS - 00-01
- PBL - 02-06
- Maximum Flexibility
- Separate CLINs
  - Transition
  - War

- Additional Metrics to Prevent "Gaming"
- Separate Contract for Contingency Options
- Free Issue of Repair Parts to Units
- Contract Contains Plan for Transition

**Operational Readiness = Profit**





# Additional Metrics

## To Prevent "Gaming"

- One Battalion Below 90% for Two Consecutive Monthly Reporting Periods = **No Award Fee**
- Any One System Down More Than 30 Days = **50% of Award Fee MAXIMUM**
- Three Battalions Less Than 90% (During Award Fee Period) = **No Award Fee**
- Division Less Than 90% for a Month = **No Award Fee for That Period and Contractor Increases Spares by N Where N Is the Number of Unfilled Requisitions That Month**
- Division Less Than 90% Two Consecutive Months = **No Award Fee for That Period and Contractor Spares Increase by  $N_2 + 1$  Where  $N_2$  Is the Number of Unfilled Requisitions During Month 2**



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# Comparison of O&M Support \$\$\$

	<u>System Cost</u>	<u>OR Rate</u>	<u>Annual O&amp;M</u> <u>O&amp;M</u>	<u>Annual</u>
<b>ITAS</b>	<b>\$400K</b>	<b>99% Measured</b>	<b>\$18,986</b>	<b>\$11.9</b>
<b>TOW 2</b>	<b>\$337 (AMDF)</b>	<b>90% Reported</b>	<b>\$39,556</b>	

- ITAS \$\$ From CLS Contract, TOW 2 \$\$ From FORSCOM RM Office
- ITAS Fleet 627, TOW Fleet 454

**ITAS PBL Saves Support \$\$\$\$**





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# ***ITAS Funded Initiative Contractor Logistics Support***

***TOW Improved Target Acquisition System (ITAS)  
(FY01C\$M)***

## ***Cost Avoidance***

<b><i>Prior</i></b>	<b><i>FY04</i></b>	<b><i>FY05</i></b>	<b><i>FY06</i></b>	<b><i>FY07</i></b>
<b><i>\$36.8</i></b>	<b><i>\$5.6</i></b>	<b><i>\$6.4</i></b>	<b><i>\$8.8</i></b>	<b><i>\$8.7</i></b>

***Bottom Line: PBL Estimated to Provide Cost Avoidance of >\$***



# ***Recent Events***

- **Accelerated Fielding to 101<sup>st</sup>, 10<sup>th</sup> MTN, and 25<sup>th</sup> Divisions To Support Planned Deployments**
- **Exercised Multiple Contingency Options - OEF, OIF**
- **Forward Repair Activities (FRA) Deployed With 82d ABN, 101<sup>st</sup> ABN, and 10<sup>th</sup> MTN Divisions**
- **Split PBL Operations in Multiple Theaters (82d)**
- **PBL - Since Feb 01 100% Operational Availability (Contractor Controlled Items)**
- **Common Processor Upgrade**
  - **Obsolescence**
  - **Eliminates 2 CCA at 40K per set**
- **Lithium Battery Box**
  - **OMA Cost Savings**
  - **Performance**



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# ***PBL On The Battlefield FSR Locations***

	<b><u>FSR</u> <u>Locations</u></b>	
• 82D Airborne Division	3	OEF/OIF
• IBCT 1	2	Deploying
• 101st Airborne Division (AASLT) (Partial)	2	OIF
• 2D Infantry Division	2	Forward Deployed
• 10 <sup>th</sup> Mountain Division	1	OEF/OIF
• IBCT 2 Station	1	Home
• 25 <sup>th</sup> Infantry Division (Partial, June 03)	1	Deploying
• 501 <sup>st</sup> IN Bn (Alaska)	0	Deploying

***Under Worst Conditions - PBL Works!***



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# ***PBL On The Battlefield Lessons Learned***

## **Gov't / Military Transportation and Distribution - A Challenge!!!**

- **Commercial Transportation - Still Preferred**
- **Transportation Expeditor - A Must**



## **Funding - A Challenge!!**

- **Be Proactive and Repetitive**
- **Get Unit's Help**

## **Communications - Critical**

- **Satellite Phones**
- **Email - AKO Accounts**



## **Contractor on Battlefield - Easier Than Expected**

- **Deploy / Embed with Units**
- **Hire the Right Personality, Teach the Skills**



## **Brief, Brief, and Re-brief Support Plan to Play**





# ***Challenges - Must Watch***

- **Budgeting / Funding for Contingencies**
- **Contract Stability - Future Commitments and Impacts**
  - **OMA Funding**
  - **Changes to Fielding Schedules**
  - **Hardware Availability**
- **Resupply / Retrograde Operations**



# ***Would Like to See***

- **True, Multi-Year Long-Term Contracts**
- **Ability to Fund True, Long-Term Contracts (Finance Reform???)**
  - **Colorless Money**
  - **Must Maintain PM Engineering Services Funds**
- **Easier Contractor Interface with Army Information Systems**
- **“FED EX” Type DOD Transportation / Distribution System**



# ***LCCS/CLS Funded with OM&A***

- **Funding Needs to Be Direct to PM**
  - **Contract Must Fund**
  - **OM&A Funding Lines Are Established for ITAS and JAVELIN**
  - **PM Responsible for Life Cycle Management**
- **Current Process Is for OMA (SSTS) to Flow Through AMC**
  - **OMA Funding Will Be Taxed**
  - **Funding (OMA) Not Available in Timely Manner to Fund Contracts**



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# ITAS in Iraq

*"The FLIR and the TOW ITAS, in particular, was the hero of the battlefield. It enabled us to see the enemy way, way out before he could even believe we could see him. And that night outside the airfield, for example, our TOW gunners could see the enemy and bring in either close air support or artillery before the enemy even realized he was being seen."*

MG David H. Petraeus  
Commander, 101<sup>st</sup> Abn Div



**Delta Co. 3<sup>rd</sup> Bn 187<sup>th</sup> INF**





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# Summary

- **ITAS Provides World-class Surveillance and Anti-Armor Capability**
- **PBL Has Demonstrated High Readiness With Lower Total Ownership Cost**
- **ITAS PBL Works in All Operational Scenarios To Date**



***ITAS and PBL - A Winning Combination for the Warfighter!!!***



# ***Back- Ups***



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# TOW ITAS Support Plan

- Only the TOW ITAS Peculiar LRUs Are Supported by CLC

**Free Issue of Spares and Parts**



BPS



TAS



FCS



TU



**PM Purchases Batteries and Provides to Unit**

- BB-622B/U
- NSN 6140-00-928-1943
- AN/PPS 5B Radar
- 10 hrs. Operation
- \$848 per Battery
- Requires 4 Batteries

- Common Components Are Supported the Same As Now



HMMWV

**Unit Purchases Spares**

Launch Tube



Tripod



# Maintenance

## Field Repair

- **Soldier/Maintainer**
  - **Organizational Level**
    - PMCS
    - BIT/BITE to Line Replaceable Unit (LRU)
  - **Direct Support Level**
    - BIT/BITE to Shop Replaceable Unit (SRU)
    - Repair by Replacement
    - Has Spares Loaded As Shop Stock
- **Contractor Forward Repair Activity (FRA)**
  - **Limited Depot Level Repair**
    - Co-located With Army Support Battalions at Selected Units
    - FRA (Personnel and Equipment) Deployable, Commander's Call
      - » On Unit's Load Plan
      - » 2 Hour Recall (82d) - Has Shots, Wills, Personal Equipment

**ITAS Repair  
Spares  
Provided  
Free to FSBs**

**Depot** **CLS Should Be Invisible To the User**





# ***Supply***

## ***Inventory Management - Contractor's Responsibility***

- Provisions, Owns, Maintains Inventory of Spares
- Determines Requirements
- Captures Demand History

## ***Spares - Free Issue to the Units***

- Initial Spares Provided to Units
- Replenishment
- Free Transportation To / From Depot

## ***Standard Army Information System***

- Interface With SARSS

***ITAS CLS Uses The Army's Standard Supply System***



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# **DUSA (Logistics) - Final CLS Approval**

## **16 May 01**



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY  
ACQUISITION LOGISTICS AND TECHNOLOGY  
103 ARMY PENTAGON  
WASHINGTON DC 20310-0103

May 17, 2001



SAAL-ZL

MEMORANDUM FOR PROJECT MANAGER, CLOSE COMBAT ANTI-ARMOR  
WEAPONS SYSTEM (CCAWS), ATTN: SFAE-MSL-  
CC-LO, REDSTONE ARSENAL, AL 35898-5710

SUBJECT: Final Improved TOW Acquisition System (ITAS) Contractor Logistics  
Support (CLS) Concept Approval

**Final Approval for ITAS  
CLS**

The purpose of this memorandum is to record the final approval of the  
ITAS CLS concept as briefed to the undersigned on May 16, 2001.

In attendance at the May 16<sup>th</sup> implementation review and in agreement  
with the decision to give final approval to the concept were representatives from  
the Deputy Assistant Secretary of the Army for Logistics, the Deputy Chief of  
Staff for Logistics and PM Close Combat Anti-Armor Weapons Systems  
(CCAWS). The purpose of the May 16<sup>th</sup> review was to ensure that issues  
identified in the March 5, 1999, review were resolved prior to final execution of  
the CLS contract.

PM CCAWS has resolved the issues with ITAS CLS concept associated  
with supply STAMIS interface, war reserve/contingency stockage factors,  
contingency "fly away" capability, and CINCs' buy-in.

The Deputy Assistant Secretary of the Army (Logistics) requests an  
update from PM CCAWS on the CLS implementation and contract performance  
in one year from this date.

Eric A. Orsini  
Deputy Assistant Secretary of the Army  
(Logistics)



# ***Why Was ITAS CLS Approved?***

- **Army Avoids \$345.3M in Life Cycle Cost for Organic Support Concept**
- **Coordinated Concept & Built Consensus**
  - **IOC Recommended Contractor Depot**
  - **Coordinated with DCSOPS & ASA(FM)**
  - **CASCOM CG Concurred with Concept & Was Represented at DASA(ALT-LOG) Decision Briefing**
- **ITAS BIT/BITE Sufficient Without Additional TMDE**
- **ITAS CLS Concept Does Not Require the Contractor to Be On the Battlefield**
- **New, Low-Density Weapon System**
  - **Not Integrated into AWCF Infrastructure**
  - **Op-Tempo Funding Requirements Relatively Low**
  - **Minimal Impact on Commanders' Op-Tempo Budget**
- **Recognition That Performance Specifications Incur Unacceptable Risk for Organic Support Concept**



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**ITAS**

# ***CLS / Organic Cost Comparison***

	<b><i>FY 2001</i></b>	<b><i>FY 2002</i></b>	<b><i>FY 2003</i></b>	<b><i>FY 2004</i></b>	<b><i>FY 2005</i></b>	<b><i>Total (FY99-TC)</i></b>
<b>CLS (TY\$)</b>	<b>7.7</b>	<b>10.8</b>	<b>13.5</b>	<b>12.9</b>	<b>16.0</b>	<b>601.1</b>
<b>Organic (TY\$)</b>	<b>18.2</b>	<b>27.4</b>	<b>18.2</b>	<b>21.9</b>	<b>29.0</b>	<b>944.6</b>
<b>Cost Avoidance</b>	<b>10.5</b>	<b>16.6</b>	<b>4.7</b>	<b>8.9</b>	<b>13.1</b>	<b>343.5</b>

## ***CLS Cost Avoidance Major Contributors***

- **No TDP**
- **Replenishment Spares**
- **Initial Spares**





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# Depot Repair Recommendation



Panasonic PPF

OCT. 14. 1998 9:39AM



JOINT DEPOT MAINTENANCE ANALYSIS GROUP  
BLDG 280, DOOR 24  
4170 HEBBLE CREEK RD  
WRIGHT-PATTERSON AFB, OHIO 45433-5653

7 SEP 1998

MEMORANDUM FOR HQ AFMC/LGPY  
USAMC/AMCLG-LM  
COMNAVIAIRSYS/COM/AIR-6.1.3.3  
COMMARCORLOGBASES/CODE G320

FROM: JDMAG/MA

SUBJECT: Joint Service Depot Source of Repair (DSOR) Decision on the Improved Target Acquisition System (950009)

References: (a) JDMAG/MA letter, 1 Jul 98

(b) HQ AFMC/LGPY memorandum, 7 Jul 98.

(c) COMMARCORLOGBASES letter, 4790 G322-23, 20 Jul 98.

(d) COMNAVIAIRSYS/COM letter, 4790 Ser AIR-6.1.1.3.3.5/8317, 10 Aug 98

(e) USAMC/AMCLG-LM memorandum, 26 Aug 98.

1. Reference (a) recommended the depot source of repair (DSOR) for the Improved Target Acquisition System be assigned to the Army for contract depot maintenance.
2. References (b) through (e) are Service concurrences with the recommended assignment.
3. No interservicing or cost avoidance is associated with this assignment.
4. Request the Army implement this joint Service decision.

recommend "contract depot maintenance"

References (b) through (e) are Service concurrences with the recommended assignment.

FOR THE DIRECTOR

THOMAS L. CHANDLER  
Deputy Director, Joint Depot  
Maintenance Activities Group



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# CASCOM

## Concurrence With Comments



COMMANDER, U.S. ARMY COMBINED ARMS SUPPORT COMMAND, 3901 A  
AVENUE, SUITE 200, FORT LEE, VA 23801-1809 3 March 1999

FOR PROGRAM EXECUTIVE OFFICE, TACTICAL MISSILES, REDSTONE  
ARSENAL,  
AL 35898-8000

1. Concur with comment.
2. The ITAS Support Concept surfaces issues which require resolution prior to full implementation of Contractor Logistic Support (CLS) for the life of the system (encl 5). These issues potentially extend to CLS concepts beyond ITAS.
3. Resolution of these issues could establish precedent and require change to existing and emerging policy and procedures.
4. POC is DCD-OD, Mr. Bruce Saxon, 804 734-2301; e-mail: [saxonb@lee.army.mil](mailto:saxonb@lee.army.mil).

5 Encls  
1-4. nc  
Added 1 encl  
5. Comments List

//signed//  
DANIEL G. BROWN  
Major General, U.S. Army  
Commanding



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# CLS

## Concept Staffing

### Army Staff & Others

- AMCOM
- Joint Depot Maintenance Analysis Group (JDMAG) Depot
- AMC
- CASCOM
- DA Staff
  - DCSOPS
  - DCSLOG
  - SARDA (MILDEP)

### User

- Orsini)
- ARCENT/CENTCOM
- USARSO/SOUTHCOM
- FORSCOM/ACOM  
FORSCOM
- 82D Airborne Division

➔ Concurrence by Director, IMMC

□ Written Recommendation - Contract

□ Mr. Craig Hunter and Mr. David Mills

□ Concurrence with Comments, MG Brown

□ BG Stricklin (info paper)

□ Mr. Pybus

□ LTG Kern

□ Concept Approved 18 May 1999 (Mr.

□ COL Brooks, G3 Plans ARCENT

□ Mr. Joe Parker, DCSLOG USARSO

□ MG Shadley, DCSLOG

□ MOA Signed by CoS and DISCOM CDR

□ Mr. Levy, International